

Application No: 10/035,281
Applicant: Khanna, Rohit Kumar
Filing Date: 01/03/2002

CLAIMS

What I claim as my invention is:

66. A method of stabilizing the reshaped lamina after a laminoplasty comprising the steps of:

displacing the severed edge of the lamina at the junction of the lamina and facet, a fixation means comprising of an elongated plate with first and second ends and an intermediate portion comprising of a bracket to secure the displaced bone end and maintain the repositioned lamina shape, said first plate end curved downward for fixation to the lamina via bone fasteners, said second plate end curved upwards for fixation to the facet via bone fasteners.

67. The method of claim 66 wherein the said bracket has a straight shape.

68. The method of claim 66 wherein the said bracket has a curved shape.

69. The method of claim 66 wherein the said bracket is L-shaped.

70. The method of claim 66 wherein the fixation means is made from biocompatible material selected from the group consisting of titanium, titanium alloys, surgical steel, polymeric material, ceramic material, resorbable material, polyglyconate, bone, and hydroxyapatite.

71. A method of stabilizing the reshaped lamina after a laminoplasty comprising the steps of:

displacing the severed edge of the lamina at the junction of the lamina and facet, a fixation means comprising of an elongated plate with first and second ends and an intermediate portion comprising of two brackets spaced apart to secure the displaced bone end and maintain the repositioned lamina shape, said first plate end curved downward for fixation to the lamina via bone fasteners, said second plate end curved upwards for fixation to the facet via bone fasteners.

72. The method of claim 71 wherein the shape of one of the said brackets is straight and the other one is curved.

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73. The method of claim 71 wherein the shape of one of the said brackets is straight and the other one is L-shaped.

74. The method of claim 71 wherein the shape of said both brackets is curved.

75. The method of claim 71 wherein the said brackets are both L-shaped.

76. The method of claim 71 wherein the shape of both said brackets is straight.

77. The method of claim 71 wherein the shape of one of the said brackets is curved and the other one is L-shaped.

78. The method of claim 71 wherein the fixation means is made from biocompatible material selected from the group consisting of titanium, titanium alloys, surgical steel, polymeric material, ceramic material, resorbable material, polyglyconate, bone, and hydroxyapatite.

79. A method of stabilizing the reshaped lamina after a laminoplasty comprising the steps of:

displacing both lamina through severed edges in the middle, providing a fixation mean comprising of an elongated plate with a first and second ends and an intermediate portion, said first and second ends comprising of a L-shaped curvature for fixation to facet on both sides through bone receiving holes at each end of the plate, said intermediate portion comprising of two brackets spaced apart in the middle to engage the displaced lamina on both sides.

80. The method of claim 79 wherein the shape of one of the said brackets is straight and the other one is curved.

81. The method of claim 79 wherein the shape of one of the said brackets is straight and the other one is L-shaped.

82. The method of claim 79 wherein the shape of said both brackets is curved.

83. The method of claim 79 wherein the said brackets are both L-shaped.

84. The method of claim 79 wherein the shape of both said brackets is straight.

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85. The method of claim 79 wherein the shape of one of the said brackets is curved and the other one is L-shaped.

86. The method of claim 79 wherein the fixation means is made from biocompatible material selected from the group consisting of titanium, titanium alloys, surgical steel, polymeric material, ceramic material, resorbable material, polyglyconate, bone, and hydroxyapatite.

87. A method of stabilizing the reshaped lamina after a laminoplasty comprising the steps of:

displacing both lamina through severed edges in the middle, providing a fixation mean comprising of an elongated U-shaped plate with a first and second ends and an intermediate portion, said first and second end allowing for fixation to lamina on both sides through bone receiving holes at each end of the plate, said intermediate portion comprising of two brackets spaced apart in the middle to engage the displaced lamina edges on both sides.

88. The method of claim 87 wherein the shape of one of the said brackets is straight and the other one is curved.

89. The method of claim 87 wherein the shape of one of the said brackets is straight and the other one is L-shaped.

90. The method of claim 87 wherein the shape of said both brackets is curved.

91. The method of claim 87 wherein the said brackets are both L-shaped.

92. The method of claim 87 wherein the shape of both said brackets is straight.

93. The method of claim 87 wherein the shape of one of the said brackets is curved and the other one is L-shaped.

94. The method of claim 87 wherein the fixation means is made from biocompatible material selected from the group consisting of titanium, titanium alloys, surgical steel, polymeric material, ceramic material, resorbable material, polyglyconate, bone, and hydroxyapatite.